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United States Department of Agriculture,

WASHINGTON, D. C., *June 30, 1918.*

MONTHLY LIST OF PUBLICATIONS.

[JUNE, 1918.]

READ CAREFULY BEFORE ORDERING.

☞**Send no remittances to the U. S. Department of Agriculture.**

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

☞**Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.**

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞NOTE.—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

Potato Culture Under Irrigation. By William Stuart, Horticulturist, C. F. Clark, Assistant Agronomist, and George W. Dewey, Scientific Assistant, Office of Horticultural and Pomological Investigations. Pp. 24, figs. 16. Contribution from the Bureau of Plant Industry. **(Farmers' Bulletin 953.)**
For general distribution.

Curing Hay on Trucks; A Method by which a Good Quality of Hay may be Cured During Unfavorable Weather. By H. B. McClure, Agriculturist. Pp. 19, figs. 11. Contribution from the Office of Farm Management. **(Farmers' Bulletin 956.)**
Suitable for general distribution.

Standard Broom Corn. By Benton E. Rothgeb, Scientific Assistant in Grain-Sorghum and Broom-Corn Investigations. Pp. 20, figs. 6. Contribution from the Bureau of Plant Industry. **(Farmers' Bulletin 958.)**
Suitable for distribution in the Eastern and Central Western States.

Tractor Experience in Illinois: A Study of the Farm Tractor Under Corn-Belt Conditions. By Arnold P. Yerkes, Assistant Agriculturist, and L. M. Church, Assistant in Farm Accounting. Pp. 30, fig. 1. Contribution from the Office of Farm Management. **(Farmers' Bulletin 963.)**
For general distribution.

Growing Grain Sorghums in the San Antonio District of Texas. By C. R. Letteer, Farm Superintendent, Office of Western Irrigation Agriculture. Pp. 12, figs. 4. Contribution from the Bureau of Plant Industry. **(Farmers' Bulletin 965.)**
For distribution in the district named.

Cultivation and Utilization of Barley. By Harry V. Harlan, Agronomist in Charge of Barley Investigations, Office of Cereal Investigations. Pp. 39, figs. 10. Contribution from the Bureau of Plant Industry. **(Farmers' Bulletin 968.)**
Suitable for general distribution.

Sweet-Potato Storage. By H. C. Thompson, Horticulturist, Office of Horticultural and Pomological Investigations. Pp. 27, figs. 15. Contribution from the Bureau of Plant Industry. **(Farmers' Bulletin 970.)**
Suitable for general distribution.

The Control of the Clover-Flower Midge. By C. W. Creel and L. P. Rockwood, Scientific Assistants, Cereal and Forage Insect Investigations. Pp. 12, figs. 6. Contribution from the Bureau of Entomology. **(Farmers' Bulletin 971.)**
For general distribution.

Farm and Home Drying of Fruits and Vegetables. By Joseph S. Caldwell, Plant Physiologist, Office of Horticultural and Pomological Investigations. Pp. 61, figs. 13. Contribution from the Bureau of Plant Industry. **(Farmers' Bulletin 984.)**
For general distribution.

Labor-Saving Practices in Haymaking Shown Pictorially. By H. B. McClure, Agriculturist. Pp. 20, figs. 33. Contribution from the Office of Farm Management. **(Farmers' Bulletin 987.)**
A picture story of right and wrong methods of the different operations in haymaking.

Better Use of Man Labor on the Farm. By H. R. Tolley, Scientific Assistant, and A. P. Yerkes, Assistant Agriculturist. Pp. 15, figs. 22. Contribution from the Office of Farm Management. **(Farmers' Bulletin 989.)**
For general distribution.

The Efficient Operation of Thrashing Machines. By H. R. Tolley, Scientific Assistant. Pp. 15. Contribution from the Office of Farm Management. **(Farmers' Bulletin 991.)**
Suitable for general distribution.

Commercial Bordeaux Mixtures: How to Calculate Their Values. By Errett Wallace, Pathologist, and L. H. Evans, Scientific Assistant, Office of Fruit-Disease Investigations, in cooperation with the Insecticide and Fungicide Board. Pp. 11, fig. 1. Contribution from the Bureau of Plant Industry. **(Farmers' Bulletin 994.)**
For general distribution.

DEPARTMENTAL BULLETINS—TECHNICAL.

☞The publications listed below are technical or scientific treaties or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information, as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Tests of the Absorption and Penetration of Coal Tar and Creosote in Longleaf Pine. By Clyde H. Teesdale, in charge, Section of Wood Preservation, and J. D. MacLean, Assistant Engineer in Forest Products, Forest Products Laboratory, Madison, Wisconsin. Pp. 43, pls. 11, figs. 12. Contribution from the Forest Service. (Professional Paper.) June 7, 1918. **(Department Bulletin 607.)** Price, 15 cents.
Of interest to engineers and builders generally.

The Wet Lands of Southern Louisiana and Their Drainage. By Charles W. Okey, Senior Drainage Engineer. Pp. 67, pl. 1, figs. 15, map. Contribution from the Office of Public Roads and Rural Engineering. (Professional Paper.) June 6, 1918. **(Department Bulletin 652.)** Price, 20 cents.
This is a revision of Department Bulletin 71 and contains information of value to landowners, engineers, and others interested in drainage by pumping, especially of the wet prairies along the Gulf coast.

Farm Organization in the Irrigated Valleys of Southern Arizona. By R. W. Clothier, Agriculturist. Pp. 59, figs. 12. Contribution from the Office of Farm Management. June 14, 1918. **(Department Bulletin 654.)** Price, 10 cents.
Shows results of a farm survey of 627 farms in southern Arizona and is of interest to all farmers in said section.

Forest-Disease Surveys. By James R. Weir, Forest Pathologist, and Ernest E. Hubert, Scientific Assistant, Office of Investigations in Forest Pathology, Bureau of Plant Industry, Missoula, Montana. Pp. 23, figs. 23. Contribution from the Bureau of Plant Industry. (Professional Paper.) June 12, 1918. **(Department Bulletin 658.)** Price, 5 cents.

A Farm-Management Study of Cotton Farms of Ellis County, Texas. By Rex E. Willard, Agriculturist. Pp. 54, figs. 19. Contribution from the Office of Farm Management. June 17, 1918. **(Department Bulletin 659.)** Price, 10 cents.
A statistical study of the investment in land and equipment, cost of operation and of production of crops, and income from different types of tenure in 1914.

Car-Lot Shipments of Fruits and Vegetables in the United States in 1916. By Paul Froehlich, Assistant in Market Surveys. Pp. 196. Contribution from the Bureau of Markets. June 8, 1918. **(Department Bulletin 667.)** Price, 20 cents.
Of interest to wholesale dealers in, and shippers of, fruits and vegetables.

The Diagnosis of Bee Diseases by Laboratory Methods. By Arthur H. McCray, Agricultural Assistant, and G. F. White, Expert in the Investigation of Bee Diseases. Pp. 15, pls. 2. Contribution from the Bureau of Entomology. (Professional Paper.) June 21, 1918. **(Department Bulletin 671.)** Price, 5 cents.
Of interest to bee-disease inspectors.

The Duck Sickness in Utah. By Alexander Wetmore, Assistant Biologist. Pp. 26, pls. 4. Contribution from the Bureau of Biological Survey. (Professional Paper.) June 21, 1918. **(Department Bulletin 672.)** Price, 10 cents.
A report on the mortality among wild ducks and other waterfowl in marshes about Great Salt Lake, Utah.

Range Preservation and Its Relation to Erosion Control on Western Grazing Lands. By Arthur W. Sampson, Plant Ecologist, and Leon H. Weyl, Grazing Examiner. Pp. 35, pls. 6, figs. 8. Contribution from the Forest Service. June 25, 1918. **(Department Bulletin 675.)** Price, 10 cents.

Describes the damage done by erosion due to overgrazing and gives remedial measures.

Honeybees and Honey Production in the United States. By S. A. Jones, Chief, Field Service, Bureau of Crop Estimates. Pp. 61. Contribution from the Bureau of Crop Estimates. June 20, 1918. **(Department Bulletin 685.)** Price, 10 cents.

Suitable for general distribution.

Further Studies of the Rots of Strawberry Fruits. By Neil E. Stevens, Pathologist, and R. B. Wilcox, Scientific Assistant, Fruit-Disease Investigations. Pp. 14. Contribution from the Bureau of Plant Industry. (Professional Paper.) June 24, 1918. **(Department Bulletin 686.)** Price, 5 cents.

Of especial interest to growers and shippers of strawberries generally.

Digestibility of Some Seed Oils. By A. D. Holmes, Specialist in Charge of Digestion Experiments, Office of Home Economics. Pp. 20. Contribution from the States Relations Service. (Professional Paper.) June 28, 1918. **(Department Bulletin 687.)** Price, 5 cents.

This bulletin records studies of the digestibility of corn oil, soy-bean oil, sunflower-seed oil, Japanese mustard-seed oil, rapeseed oil, and charlock oil. It is primarily of interest to students and investigators of food problems.

MISCELLANEOUS.

Yearbook of the U. S. Department of Agriculture, 1917. Pp. 853, pls. 77, figs. 14, maps and graphs 90. Price, $1.00.

This Yearbook contains the annual report of the Secretary, 61 pages; 35 miscellaneous articles, 543 pages; an appendix, 197 pages; an index, 55 pages. Only 6 out of each 100 copies are allotted to this department, which number is insufficient to supply even its regular correspondents. Other applicants are therefore respectfully referred to their Representative or Delegate in Congress, as the other 94 per cent is allotted to that body. The Superintendent of Documents, Government Printing Office, Washington, D. C., has it for sale at $1.00 per copy.

List of Workers in Subjects Pertaining to Agriculture and Home Economics, 1917–18. Prepared in the Division of Publications and the States Relations Service. Pp. 157. Price, 10 cents.

Revision of the American Flying Squirrels. By Arthur H. Howell, Assistant Biologist, Biological Survey. Pp. 64, pls. 7, figs. 4. June 13, 1918. **(North American Fauna No. 44.)** Price, 15 cents.

The Work of the Yuma Reclamation Project Experiment Farm in 1916. By R. E. Blair, Farm Superintendent. Pp. 40, figs. 12. **(W. A. I. Cir. 20, Bureau of Plant Industry.)**

Of interest to farmers on said project.

SERIALS.

Journal of Agricultural Research. (For sale only. Vol. 13, No. 8, May 20, 1918. Contents: Hydration Capacity of Gluten from "Strong" and "Weak" Flours. (no Minn.–27) By R. A. Gortner and E. H. Doherty.—Chemistry and Histology of the Glands of the Cotton Plant, with Notes on the Occurrence of Similar Glands in Related Plants. (nl E–9) By Ernest E. Stanford and Arno Viehoever. Pp. 389–436, pls. 8, figs. 17. Price, 30 cents.

Same, Vol. 13, No. 9, May 27, 1918. Contents: Pot or Pit (Soilrot) of the Sweet Potato. (nm Tex.–1) By J. J. Taubenhaus.—Boron: Its Effect on Crops and Its Distribution in Plants and Soil in Different Parts of the United States. (nn E.–10) By F. C. Cook and J. B. Wilson. Pp. 437–470, pls. 2. Price, 15 cents.

Same, Vol. 13, No. 10, June 3, 1918. Contents: Destruction of Tetanus Antitoxin by Chemical Agents. (nr A–39) By W. N. Berg and R. A. Kelser.—Relation of the Density of Cell Sap to Winter Hardiness in Small Grains. (ns Kans.–12) By S. C. Salmon and F. L. Fleming.—Influence of Temperature and Precipitation on the Blackleg of Potato. (nq G–145) By J. Rosenbaun and G. B. Ramsey.—A New Bacterial Disease of Gipsy-Moth Caterpillars. (nt K–65) By R. W. Glaser. Pp. 471–522, pls. 2, figs. 5. Price, 10 cents.

Same, Vol. 13, No. 11, June 10, 1918. Contents: Physical Properties Governing the Efficacy of Contact Insecticides. (nv Minn.–28) By William Moore and S. A. Graham.—Inoculation Experiments with Species of Coccomyces from Stone Fruits. (np Wis.–12) By G. W. Keitt.—Nysius ericae, the False Chinch Bug. (nu K–66) By F. B. Milliken.—Comparative Transpiration of Corn and the Sorghums. (ny Kans.–13) By Edwin C. Miller and W. B. Coffman. Pp. 523–604, pls. 9, figs. 18. Price, 25 cents.

Same, Vol. 13, No. 12, June 17, 1918. Contents: Inorganic Composition of a Peat and of the Plant from Which it Was Formed. (nw H–5) By C. F. Miller.—Digestibility of Corn Silage, Velvet-Bean Meal, and Alfalfa Hay when fed singly and in combinations. (oa Tex.–3) By P. V. Ewing and F. H. Smith.—Effects of Various Salts, Acids, Germicides, etc., Upon the Infectivity of the Virus Causing the Mosaic Disease of Tobacco. (nz G–146) By H. A. Allard.—A Study of the Physical Changes in Feed Residues Which Takes Place in Cattle During Digestion. (nx Tex.–2) By P. V. Ewing and L. H. Wright.—Sunscald of Beans. (ob G–147) By H. G. MacMillan.—A Third Biologic Form of Puccinia graminis on Wheat. (oj Minn.–30) By M. N. Levine and E. C. Stakman. Pp. 605–654, pls. 3. Price, 10 cents.

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Experiment Station Record. Vol. 38, No. 6. Abstract Number. June 14, 1918. E. W. Allen, Ph. D., Editor. Pp. 501–600. Price, 15 cents.

☞NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at $1 a volume.

The Monthly Crop Report. Vol. 4, No. 6, June 1918. Pp. 57–68. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yields, prices, and value of crops and live stocks. For free distribution.

SOIL SURVEYS.

☞All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Ringgold County, Iowa. By E. C. Hall and W. E. Tharp, of the U. S. Department of Agriculture, and F. B. Howe, of the Iowa Agricultural Experiment Station. Pp. 29, fig. 1, map. **(From F. O. Soils, 1916.)** Price, 15 cents.

Soil Survey of Rapides Parish, Louisiana. By E. H. Smies, Risden T. Allen, J. B. R. Dickey, W. A. Rockie, R. C. Jurney, R. R. Burn, M. Earl Carr, and Hugh H. Bennett. Pp. 43, fig. 1, map. **(From F. O. Soils, 1916.)** Price, 15 cents.

Soil Survey of Newton County, Mississippi. By A. L. Goodman, of the U. S. Department of Agriculture, and E. M. Jones, of the Mississippi Geological Survey. Pp. 43, fig. 1, map. **(From F. O. Soils, 1916.)** Price, 15 cents.

Soil Survey of Dodge County, Nebraska. By B. W. Tillman, of the U. S. Department of Agriculture, and H. C. Mortlock, of the Nebraska Soil Survey. Pp. 53, fig. 1, map. **(From F. O. Soils, 1916.)** Price, 15 cents.

Soil Survey of Hall County, Nebraska. By J. O. Veatch, of the U. S. Department of Agriculture, and V. H. Seabury, of the Nebraska Soil Survey. Pp. 41, fig. 1, map. **(From F. O. Soils, 1916.)** Price, 15 cents.

Soil Survey of Richland County, South Carolina. By Cornelius Van Duyne, W. E. McLendon, and Thomas D. Rice. Pp. 72, fig. 2, map. **(From F. O. Soils, 1916.)** Price, 15 cents.

SEPARATES.

Federal Aid to Highways. By J. E. Pennybacker and L. E. Boykin, Office of Public Roads and Rural Engineering. Pp. 13, fig. 1. **(Separate 739, Yearbook 1917.)** Price, 5 cents.

The Soy-Bean Industry in the United States. By W. J. Morse, Bureau of Plant Industry. Pp. 13, pls. 6. **(Separate 740, Yearbook 1917.)** Price, 5 cents.

Breeding Horses for the United States Army. By H. H. Reese, Bureau of Animal Industry. **(Separate 754, Yearbook 1917.)** Price, 5 cents.

Cereal Diseases and the National Food Supply. By Harry B. Humphrey, Bureau of Plant Industry. Pp. 16, pls. 4. **(Separate 755, Yearbook 1917.)** Price, 5 cents.

The Seed Supply of the Nation. By R. A. Oakley, Bureau of Plant Industry. Pp. 42, pls. 4. **(Separate 757, Yearbook 1917.)** Price, 5 cents.

A Graphic Summary of Seasonal Work on Farm Crops. By O. E. Baker, C. F. Brooks, and R. G. Hainsworth, Office of Farm Management. Pp. 55, figs. 90. **(Separate 758, Yearbook 1917.)** Price, 10 cents.

Statistics of Crops Other Than Grain Crops, 1917. Pp. 55. **(Separate 760, Yearbook 1917.)** Price, 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

☞Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weather and Crop Bulletin. Nos. 12, 13, 14, 15, June, 1918, reporting temperature, rainfall, and crop conditions throughout the United States. Issued Weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

FRANCIS J. P. CLEARY,
Acting Chief, Division of Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1918